

**Notice of Allowability**

Application No.

10/671,551

Applicant(s)

CHEN, LUNG-HUI

Examiner

Erica E Cadugan

Art Unit

3722

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to docket number 2450-0562P filed 9/29/2003 and interview of 2/3/05.
2. ☒ The allowed claim(s) is/are 1-9 and 11.
3. ☒ The drawings filed on 29 September 2003 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Joe Muncy on February 3, 2005.

3. The application has been amended as follows:

Claim 1 (Currently Amended). A clamping device of a rotating tool comprising:  
a first clamping plate including:

a snap groove disposed at the center of said first clamping plate and having a  
bored hole disposed at a center of said snap groove; and  
a plurality of first fixing grooves disposed on [the] a circumference of said first  
clamping plate; and

a second clamping plate including:

a snap protrusion disposed at the center of said second clamping plate,  
corresponding to said snap groove, and having a bored hole disposed at a center  
of said snap protrusion; and  
a plurality of fixing protrusions disposed on [the] a circumference of said second  
clamping plate and corresponding to said first fixing grooves;

Art Unit: 3722

wherein [one of] said first [and second] clamping [plates] plate includes a plurality of union protrusions integrally fixed thereon and the [other one] second clamping plate includes a plurality of second fixing grooves corresponding to said union protrusions.

Claim 7 (Currently Amended). The clamping device of a rotating tool according to claim 1, wherein each said fixing protrusion is a tenon and each first fixing groove is a groove corresponding to the respective tenon.

Claim 8 (Currently Amended). The clamping device of a rotating tool according to claim 1, wherein each said union protrusion can be made of aluminum.

Claim 9 (Currently Amended). The clamping device of a rotating tool according to claim 1, wherein each said union protrusion can be made of aluminum alloy.

Claim 10 has been canceled.

Claim 11 (Currently Amended). The clamping device of a rotating tool according to claim [10] 1, wherein said union protrusions are disposed on the circumference of [one of] said first [and second] clamping [plates] plate and there is the same distance between said union protrusions.

4. The following is an examiner's statement of reasons for allowance: U.S. Pat. No.'s 5,090,845 to Bentjens, 5,323,505 to Montabaur et al., and 680,418 to Ross are representative examples of the closest prior art of record to the present invention as set forth in independent claim 1.

Bentjens teaches a clamping device for a rotating tool (disc mill) including first 2 and second 3 clamping discs or "plates" (Figures 2-3). Each "plate" has seven circumferential "protrusions" 4, 5 that fit into corresponding "grooves" of the other plate (see Figures 2-3, and

Art Unit: 3722

especially Figure 4). However, Bentjens does not teach a “snap groove disposed at the center of said first clamping plate and having a bored hole disposed at a center of said snap groove”, nor a “snap protrusion disposed at the center of said second clamping plate, corresponding to said snap groove, and having a bored hole disposed at a center of said snap protrusion” as set forth in independent claim 1.

Thus, for at least the foregoing reasoning, Bentjens does not anticipate the present invention as set forth in independent claim 1.

Also, there is no combinable teaching in the prior art of record that would reasonably motivate one having ordinary skill in the art to so modify the teachings of Bentjens, and thus, Bentjens does not render obvious the present invention as set forth in independent claim 1.

Re Montabaur et al., Montabaur teaches a clamping device for a rotary brush tool including two clamping “plates” 1a, 1b (Figures 1-2). Each plate has a plurality of protrusions 4 that project toward identical protrusions 4 on the other plate (see especially Figure 2 which shows the tongues or protrusions in mating engagement with one another).

However, Montabaur does not teach a “snap groove disposed at the center of said first clamping plate and having a bored hole disposed at a center of said snap groove”, nor a “snap protrusion disposed at the center of said second clamping plate, corresponding to said snap groove, and having a bored hole disposed at a center of said snap protrusion”, nor a “plurality of first fixing grooves disposed on the circumference of said first clamping plate” that “correspond” to any “plurality of fixing protrusions disposed on the circumference of said second clamping plate”, etc., as set forth in independent claim 1.

Art Unit: 3722

Thus, for at least the foregoing reasoning, Montabaur et al. does not anticipate the present invention as set forth in independent claim 1.

Also, there is no combinable teaching in the prior art of record that would reasonably motivate one having ordinary skill in the art to so modify the teachings of Montabaur et al., and thus, Montabaur et al. does not render obvious the present invention as set forth in independent claim 1.

Re Ross, Ross teaches a clamping device for a rotary polishing brush including two “clamping plates” B, B’. B’ includes a plurality of protrusions D (Figures 1 and 4).

However, protrusions D do not correspond to any sort of grooves on the plate B as set forth in claim 1. Additionally, Ross does not teach a “snap groove disposed at the center of said first clamping plate and having a bored hole disposed at a center of said snap groove”, nor a “snap protrusion disposed at the center of said second clamping plate, corresponding to said snap groove, and having a bored hole disposed at a center of said snap protrusion” as set forth in independent claim 1.

Thus, for at least the foregoing reasoning, Ross does not anticipate the present invention as set forth in independent claim 1.

Also, there is no combinable teaching in the prior art of record that would reasonably motivate one having ordinary skill in the art to so modify the teachings of Ross, and thus, Ross does not render obvious the present invention as set forth in independent claim 1.

Thus, the prior art of record neither anticipates nor renders obvious the present invention as set forth in the independent claim.

Art Unit: 3722

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

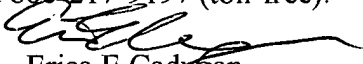
***Conclusion***

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Erica E Cadogan whose telephone number is (571) 272-4474. The examiner can normally be reached on M-F, 7:30 a.m. to 5:00 p.m., alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Derris H. Banks can be reached on (571) 272-4419. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

  
Erica E Cadogan  
Primary Examiner  
Art Unit 3722

ecc  
February 3, 2005